

**Product Name:** JNJ 303

**Catalog No.:** 3899

**Batch No.:** 4

CAS Number: 878489-28-2

IUPAC Name: 2-(4-Chlorophenoxy)-2-methyl-N-[5-[(methylsulfonyl)amino]tricyclo[3.3.1.1<sup>3,7</sup>]dec-2-yl]-propanamide

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>21</sub>H<sub>29</sub>ClN<sub>2</sub>O<sub>4</sub>S.½H<sub>2</sub>O

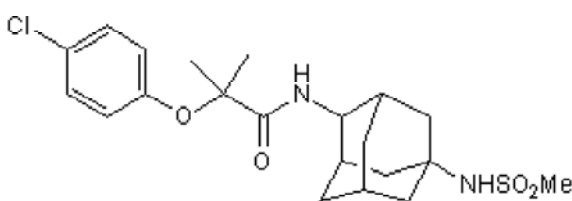
**Batch Molecular Weight:** 445.48

**Physical Appearance:** White solid

**Solubility:** DMSO to 25 mM

**Storage:** Store at +4°C

**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**TLC:** R<sub>f</sub> = 0.6 (Chloroform:Methanol [2.5%])

**HPLC:** Shows 99.3% purity

**<sup>1</sup>H NMR:** Consistent with structure

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	56.62	6.67	6.29
Found	56.44	6.46	6.22

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**Description:**

Potent I<sub>Ks</sub> blocker (IC<sub>50</sub> = 64 nM). Displays no effects on other cardiac channels; IC<sub>50</sub> values are 3.3, >10, 11.1 and 12.6 μM for I<sub>Na</sub>, I<sub>Ca</sub>, I<sub>to</sub> and I<sub>Kr</sub> currents respectively. Prolongs QT and causes unprovoked torsades de pointes (TdP).

**Physical and Chemical Properties:**

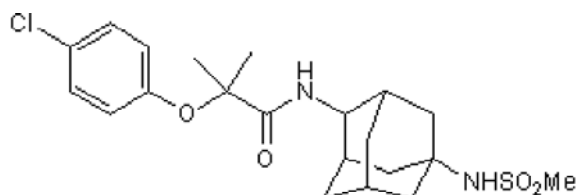
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Batch Molecular Weight: 445.48

Physical Appearance: White solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**Storage:** Store at +4°C

**Solubility & Usage Info:**

DMSO to 25 mM

**Stability and Solubility Advice:**

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

**SOLIDS:** Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

**SOLUTIONS:** We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

**Licensing Information:**

Sold with the permission of Janssen Pharmaceutica NV

**References:**

**Towart et al** (2009) Blockade of the I<sub>Ks</sub> potassium channel: an overlooked cardiovascular liability in drug safety screening? *J.Pharm.Toxicol.Meth* **60** 1.

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